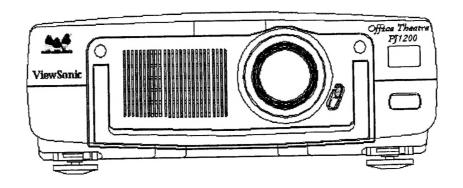
Service Manual

ViewSonic PJ1200 Model No. VPRJ21474-1

Color LCD Projector Display



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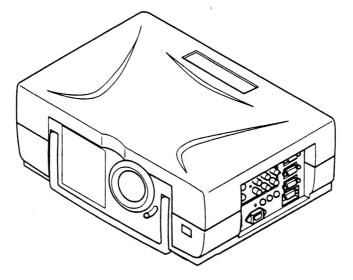
Revision History

Revision	Date	Description Of Changes	Approval
1.0	3/5/99	Initial Issue	T. Sears

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PJ1200



-Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this Hitachi liquid crystal projector. Be sure to read cautionary items described in the manual to maintain safety before servicing.

-Service Warning-

- 1. When replace the lamp, to avoid burns to your fingers. The lamp becomes too hot.
- 2. Never touch the lamp bulb with a finger or anything else. Never drop it or give it a shock. They may cause bursting of the bulb.
- 3. This projector is provided with a high voltage circuit for the lamp. Do not touch the electric parts of power unit (main), when turn on the projector.
- 4. Do not touch the exhaust fan, during operation.
- 5. The LCD module ass'y is likely to be damaged. If replacing to the LCD module ass'y, do not hold the FPC of the LCD module ass'y.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

Liquid Crystal Projector

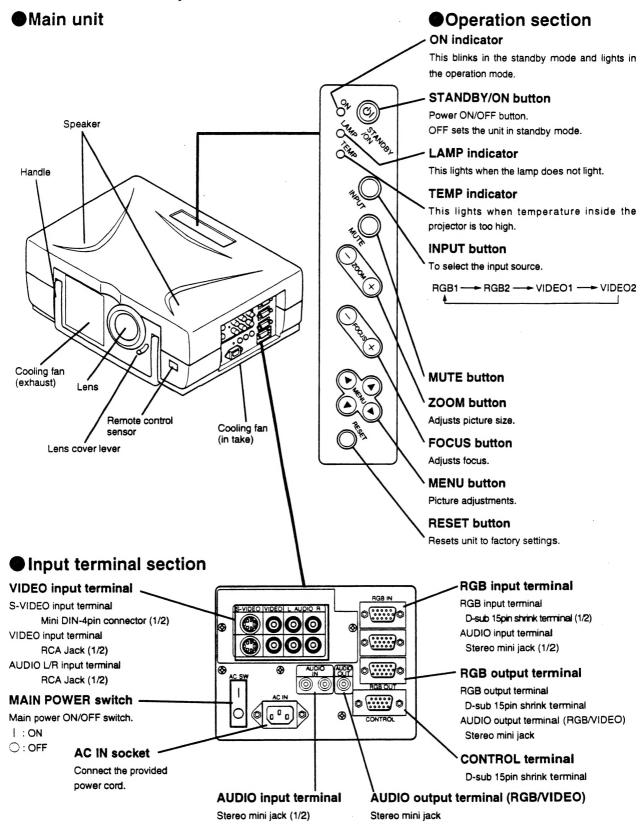
1. Features

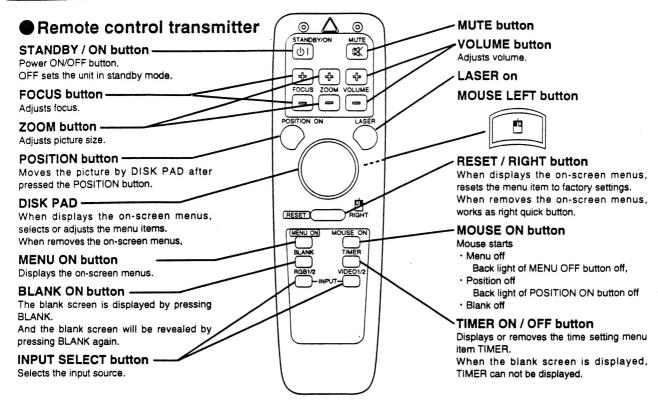
- ▶ 1.3" polysilicon liquid crystal panel
- ▶ 150W UHB lamp
- ▶ Video input compatible with NTSC/PAL/SECAM video signals
- ▶ RGB input compatible with IBM® PCs, Macintosh® and NEC® PC98 computer signals
- Power zoom and power focus
- ▶ 2 VIDEO IN systems, 2 RGB IN systems, and 1 RGB OUT system
- ▶ RS232C communication
- Mouse emulation

2. Specifications

Limited on total	Drive system	TFT active matrix		
Liquid crystal panel	Panel size	1.3inches		
parier	Number of pixels	1024 (H) x 768 (V)		
Lamp		UHB lamp 150W		
	System	NTSC , 4.43NTSC , PAL , M-PAL , or SECAM		
Video input	Level	Composite 1.0Vp-p (75Ω termination) Y/C Y: 1.0Vp-p (75Ω termination) C: 0.286Vp-p (NTSC burst signal, 75Ω termination) 0.3Vp-p (PAL/SECAM burst signal, 75Ω termination)		
RGB input /		Analog RGB input 0.7Vp-p (75Ω termination)		
output	Sync signal	H/V separate or H/V composite, TTL level		
Audio	Input	200mVrms, 20kΩ or less		
Audio	Output	0~200mVrms, 1kΩ		
Speaker outpu	ut	2W + 2W (stereo)		
Power supply		AC100~120V/2.9A,AC220~240V/1.3A (50/60Hz)		
Power consum	nption	250W		
Dimensions		404 (W) x 164 (H) x 312 (D) mm		
Weight		8kg		
Temperature range		Operation : 0~35°C Storage : -20~60°C		
Accessories		Remote control 1 RGB signal cable 1 Batteries LR6 2 Video/Audio cable 1 Power cord 3 Mouse cable 3 Stereo mini cable 1 S-Video cable 1 MAC adapter 1		

3. Names of each part





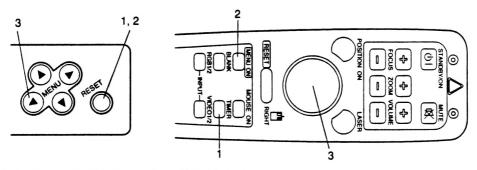
Function for service

Function	Operation		
Displayed the operating time of the lamp	Press the RESET button of the projector or the TIMER button of the remote control, for 3 seconds.		
Reset the operating time of the lamp	Press the RESET button of the projector or the remote control, for 3 seconds. (During be displayed the operating time of the lamp.)		
Displayed the operating time of the projector	Press the MUTE button of the projector or the remote control, for 3 seconds. (During be displayed the operating time of the lamp.)		

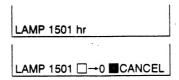
When replacing the lamp, Reset the operating time of lamp.

Reset the lamp timer:

Please carry out the following operation within 10 minutes from power on, if you replaced the lamp after 2,000 hours.



- Press the RESET button on projector for 3 seconds or remote control TIMER button for 3 seconds and display the total lamp used time.
- Press the RESET button on projector or remote control MENU ON button during displaying the lamp used time.
- Select the "0" on the screen using the MENU () button or DISK PAD.

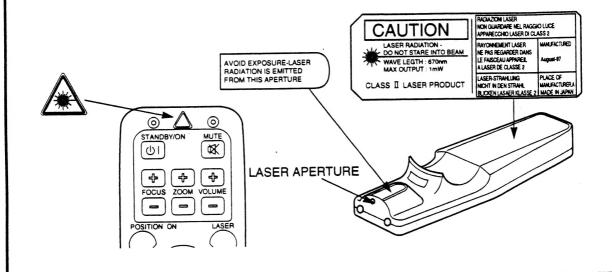




Caution

Cautions on use of the laser pointer.

- The laser pointer on the remote control unit radiates the laser beam from the laser aperture.
- Do not state directly into the laser aperture or radiate the laser beam to order persons as the laser emitted is a class II laser and it could damage you vision, etc. Especially pay attention if children are present.
- The three under labels are caution labels for the laser beam.



Message table

On-screen display

The following messages are displayed on the screen.

CHANGE THE LAMP "CALL A MAINTENANCE PERSON"	Lamp has 1,900 hours on it and may need to be changed.
"CHANGE THE LAMP" "CALL A MAINTENANCE PERSON." "THE POWER WILL TURN OFF AFTER 20 Hr."	Lamp has 1,980 hours on it. See P.4 "Reset the lamp timer"
Blinking of "CHANGE THE LAMP"	When the lamp has 2,000 hours or more on it, the message will blink, and the power will turns off after 10 minutes.
NO INPUT IS DETECTED	Signal is not input.
SYNC IS OUT OF RANGE	The horizontal frequency of the input signal exceeds the range of the projector, it cannot be displayed.

Indicator display

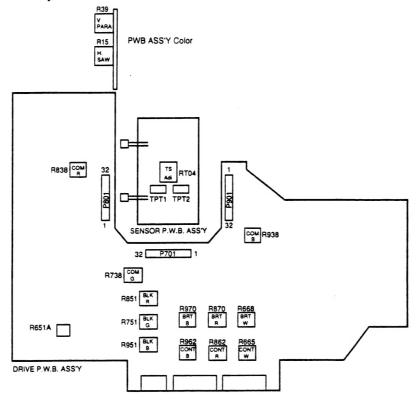
The ON indicator, LAMP indicator and TEMP indicator will light or blink in the following cases.

	Indicator status	Meaning	Remedy
	Lights green	Standby mode	
ON in disease	Blinks green	During warming up	
ON indicator	Lights green	During operation	
	Blinks green	During cooling down	
LAMP indicator	Lights red	Lamp cannot light	Cool projector by power off for 20 minutes.
TEMP indicator	I to be a seed		Correctly reinstall so as not to block ventilation
	Lights red Temperature inside too high	holes.	
	Blinks red	Cooling fan accident	call a maintenance person.

^{*}When the LAMP indicator lights, turn the power off. If the problem cannot be recovered, contact your dealer.

4. Adjustment

4 - 1 Position to be adjusted



4 - 2 White balance adjustment

Preparations for adjustment

- 1. Setting of condition
- ① Apply heat-running for 10 minutes or more before adjustment.
- Project 40" size image with the "+" ZOOM button set to max.
- ③ Preset R15(H SAW) and R39(V PARA) at the clockwise end.
- 4 Press the RESET button of the remote control transmitter to set the picture adjustment to NORMAL.
- 2. Adjustment common voltage (flicker)

Refer to the attached drawing.

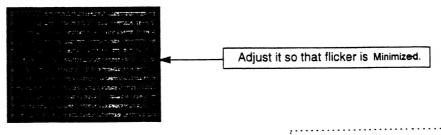
- ① Input horizontal green line (gray/black) signal with a timing signal of XGA VESA(60).
 - Adjust R738 so that flicker is the lest.
- ②Input horizontal red line (gray/black) signal with a timing signal of XGA VESA(60).

 Adjust R838 so that flicker is the lest.

R668(BRT W) , R870(BRT R) , R970(BRT B) , R665(CONT W) , R862(CONT R) , R962(CONT B), R751(BLK G) , R851(BLK R) , R951(BLK B) , R651A(JITTER)

5 Preset the next volumes to the center ...

③ Input horizontal blue line (gray/black) signal with a timing signal of XGA VESA(60). Adjust R938 so that flicker is the lest.



Adjustment Procedure

- ① Input 16 steps monochrome green at 0.7Vp-p with a timing signal of XGA VESA(60).
- ② Adjust R668(BRT W) and R665(CONT W) so that both sides signal level is almost the same but slightly different by visual inspection. (Between 1st step and 2nd step. Between 15th step and 16th step.)
- 3 Input white pattern at 0.35Vp-p with a timing signal of XGA VESA(60).
- Adjust R15(H SAW) so that color uniformity is best,.....visual check (Horizonal adjustment). Adjust R39(V PARA) so that color uniformity is best,.....visual check (Vertical adjustment) Basically the clockwise end is best setting on R39(V PARA).
- ⑤ Input white pattern at 0.21Vp-p with a timing signal of XGA VESA(60).

4 - 3 Convergence adjustment

Preparations for adjustment

- ① Apply heat-running for 10 minutes or more before adjustment.
- ②Input a cross-hatch signal to the RGB input terminal with a timing signal of XGA VESA (60).
- ③ Project about a 40" size image and adjust H.PHASE so that the vertical lines of cross-hatch pattern are clear.
- ① Loosen 2 screws ② of both the R and B panel's metal fittings. (See Figs.4 1 and 4 2.)
- (Note) Do not loosen screws ⓐ too much. If they are loosened too much, the convergence may drift when they are tightened.
- (Note) Exclusive tools are required to adjust convergence.

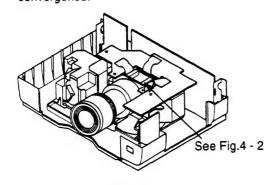


Fig.4 - 1

- ⑥ Adjust R870(BRT R) and R970(BRT B) so that the chromaticity at the center of the picture is X=0.280±0.01, Y=0.330±0.01 (low-brightness white balance) using Minolta CL-100.
- Input white pattern at 0.52Vp-p with a timing signal of XGA VESA(60).
- Adjust R862(CONT R) and R962(CONT B) so that the chromaticity at the center of the picture is X=0.290±0.01 , Y=0.350±0.01 (middle-brightness white balance) using Minolta CL-100.
- ① Input white pattern at 0.07Vp-p with a timing signal of XGA VESA(60).
- ① Adjust R851(BLK R) and R951(BLK B) so that the chromaticity at the center of the picture is X=0.270±0.01, Y=0.300±0.01 (black white balance) using Minolta CL-100.

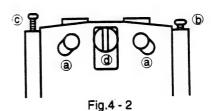
Adjustment procedure

- ① Regarding the G panel as standard, adjust the convergence at the picture center of the R panel using ⑤ for the vertical direction, ⑥ for the horizontal direction.
- ②Adjust the convergence at the edge of the picture using ③ .
- 3Then, regarding the G panel as standard, adjust the convergence of B panel in the same procedure as ① and ②.
- A Repeat steps ① to ③ and adjust so that convergence of whole picture satisfy the following values.

3					
		Adjustment value			
	Horizontal	±1dot			
	Vertical	±1dot	G		

G is a standard

5 Tighten 4 screws to fix panels.



4 - 4 Sensor adjustment

Preparations for adjustment

1 Apply heat-running for 10 minutes or more before adjustment.

4 - 5 Ghost adjustment

Preparations for adjustment

- 1 Input a cross-hatch signal at 0.7Vp-p with a timing signal of XGA VESA(60).
- 2 Adjust "H.PHASE" so that the vertical lines of cross-hatch pattern are

4 - 6 Panel phase adjustment

Preparations for adjustment

- 1 As following procedure, adjust it with each timing signal: XGA VESA(60), XGA VESA(70), XGA VESA(75), VGA VESA(72).
- 2 Input a cross-hatch signal at 0.7Vp-p with a timing signal of XGA VESA(60).
- 3 Adjust "H.PHASE" so that the vertical lines of cross-hatch pattern are seen most clear.

Adjustment procedure

Adjust RT04 to get following values. $0.019 \pm 0.002 [V]$ (Connect⊕side to TPTI and⊙side to TPT2 by digital meter.)

Adjustment Procedure

- 1 Input character signal at 0.7 Vp-p, and adjust "GHOST"(*) so that the best at ghost.
 - (*) how to set up adjustment menu "GHOST" 1st:Push MENU button. 2nd:Push RESET button and keep 5sec. 3rd:Select GHOST of head line.

Adjustment Procedure

① Input character signal at 0.35Vp-p. (CHARACTER Format :1 Code:83hex [] Font:16*16 Cell:16*16)

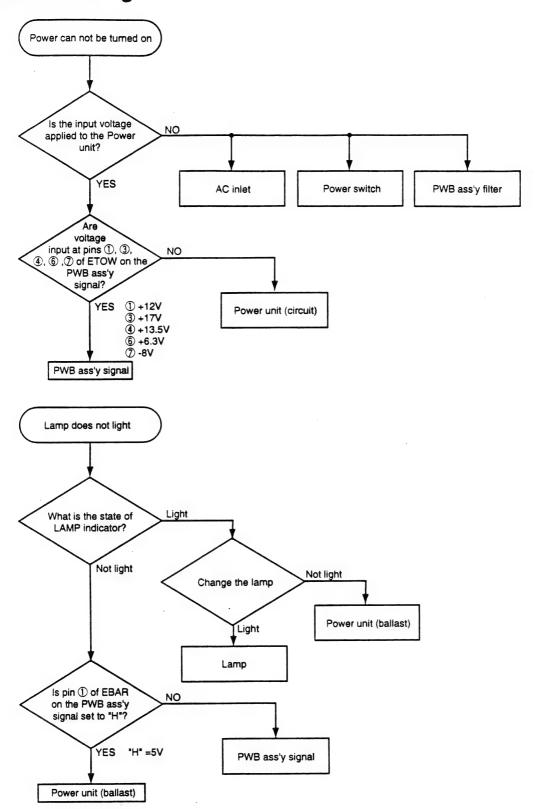


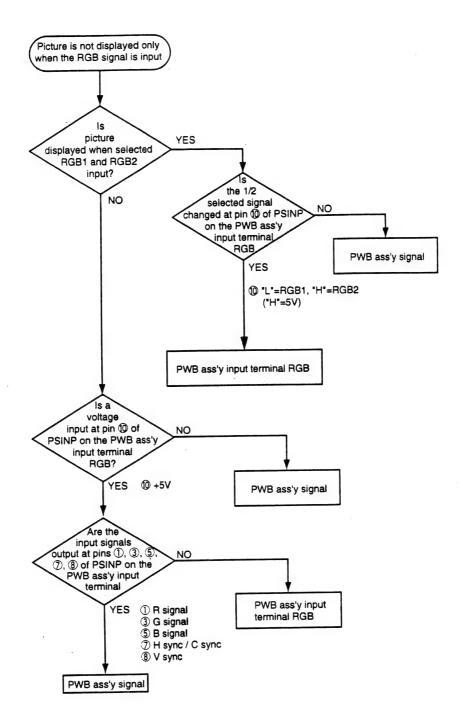
② Adjust "S/H"(*) so that the most bright at vertical lines.

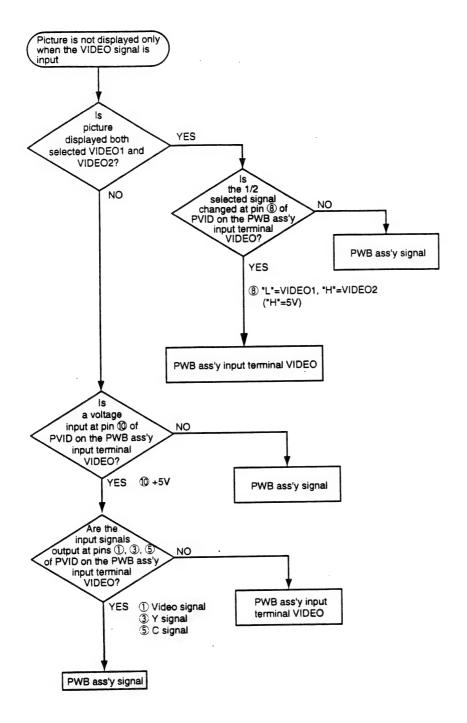
(Attend to jitter that is sure to show between O(min) to 127(max).)

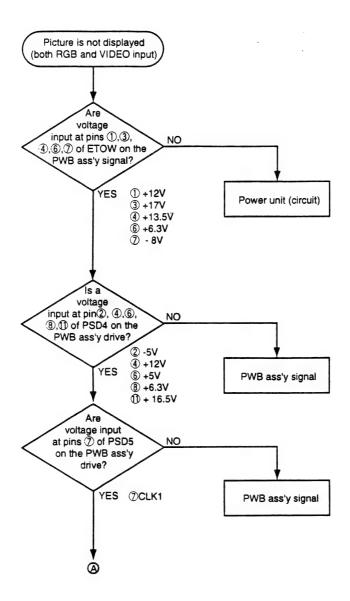
(*) how to set up adjustment menu "S/H" 1st:Push MENU button. 2nd:Push RESET button and keep 5sec. 3rd:Select S/H of head line.

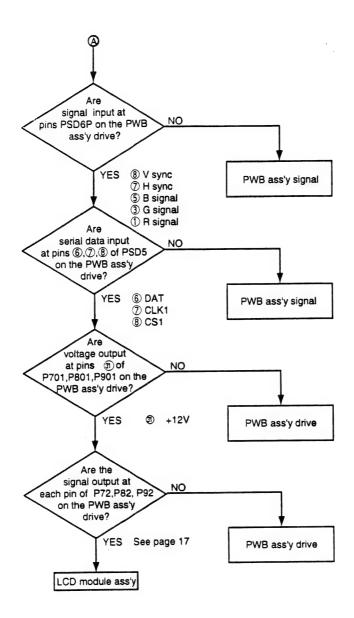
5. Troubleshooting

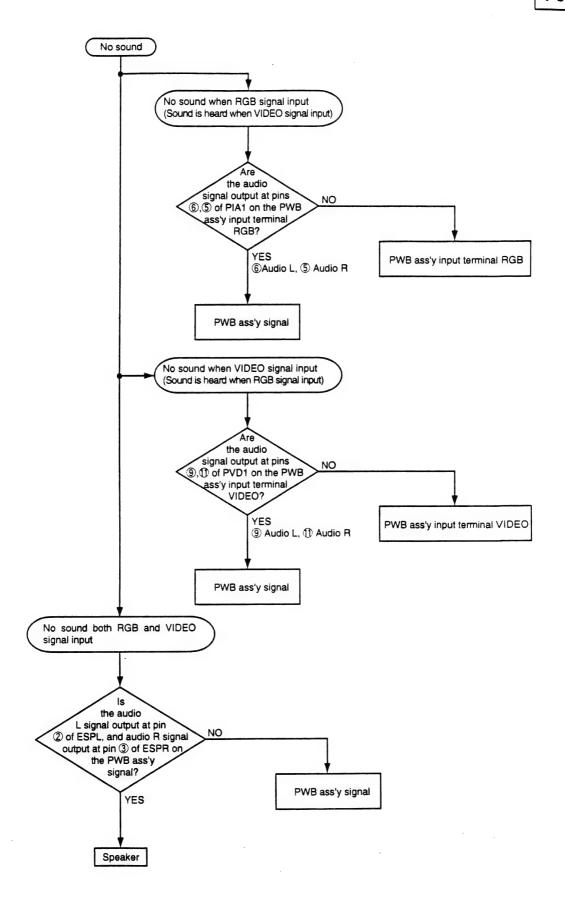


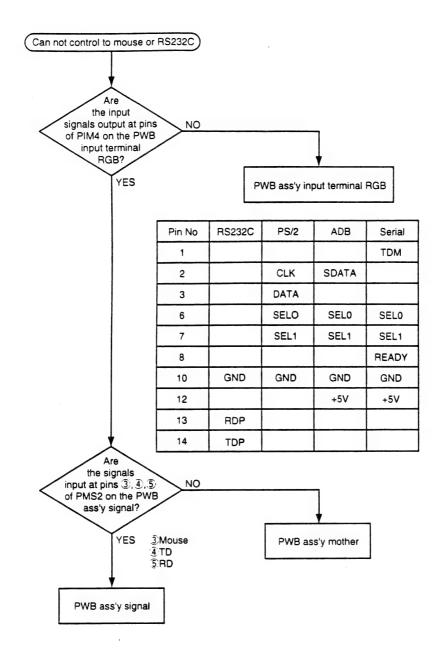




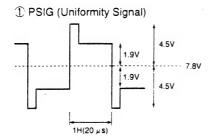


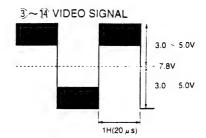


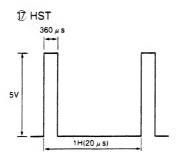


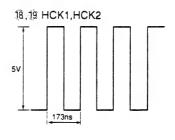


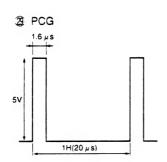
Signal waveforms of P501, P601 and P701 (Input signal is VGA3)

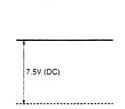




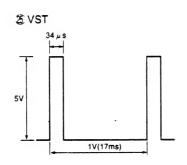


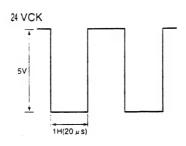


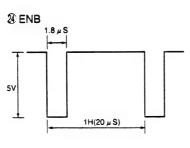




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6. Service points

- 6 1 Removing the lamp
- 1. Loosen screw A1 and remove the lamp cover.
- 2. Loosen 3 screws A2 and remove the lamp.

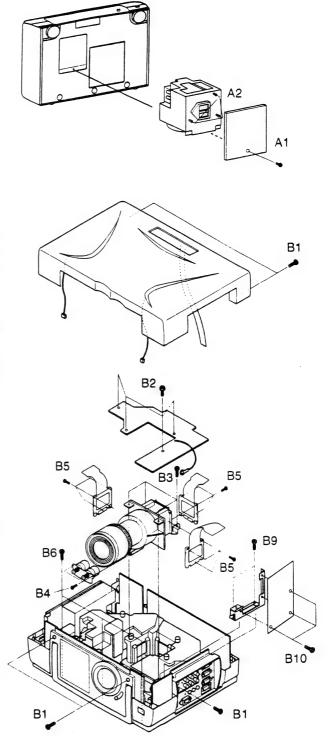
Caution: After change the new lamp, tighten 3 screws A2.

If 3 screws are loose, the unit may be broken by incomplete connection of the lamp.

Lamp becomes too hot. To avoid burns to your finger.

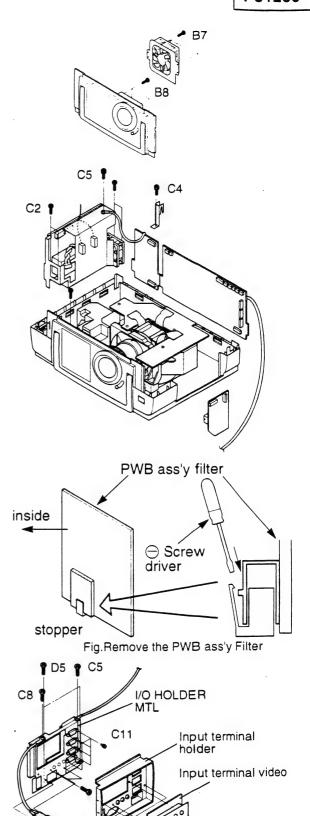
Turn the power off and let the projector cool. After change the new lamp, reset the operating time of the lamp.

- 6-2 Removing the PWB ass'y drive, the lens prism unit, the LCD module ass'y, The front cover ass'y and exhaust fan, the handle (Fig. 6-2)
- (1) Removing the PWB ass'y drive.
 - 1. Remove 5 screws B1 and remove the upper case ass'y and disconnect the operation panel connector.
 - 2. Remove 7 screws B0 and remove the upper shield case.
 - 3. Disconnect 2 connector for speaker from PWB ass'y signal.
 - 4. Release the lock of the connector housing and disconnect the FPC of the LCD module ass'y.
 - Remove 4 screws B2 and disconnect 3 connector and remove the PWB ass'y drive.
- (2) Removing the lens prism unit.
 - 1. Remove the PWB ass'y drive. (Refer to Item 6 - 2 (1).)
 - 2. Disconnect 2 connector for motor from the PWB ass'y signal.
 - 3. Remove 4 screws B3 and remove the lens prism unit with DC motors.
 - 4. Remove 2 screws B4 and remove the DC motor ass'y from lens prism unit.
- (3) Remove the LCD module ass'y.
 - 1. Remove the lens prism unit with DC motor. (Refer to steps 1 and 3 of Item 6 2 (2).)
 - Remove 3 screws B5 and remove the LCD module ass'y.
- (4) Removing the PWB ass'y color.
 - 1. Remove 2 screws B9 and remove the holder.
 - 2. Remove 3 screws B10 and remove the PWB ass'y color.
- (5) Removing the front cover ass'y and exhaust fan.
 - 1. Remove the lens prism unit with DC motor. (Refer to steps 1 to 3 of Item 6 - 2 (2).)
 - Remove 3 screws B6 and remove the front cover ass'y (with exhaust fan).
 - 3 Disconnect connector for exhaust fan from PWB ass'y signal.
 - 4 Remove 4 screws B7 and remove the exhaust fan.



- (5) Removing the lens shutter unit.
 - 1. Remove the front cover ass'y. (Refer to Item 6 2 (4).)
 - Remove 4 screws B8 and remove the lens shutter unit.
- (6) Removing the handle.
 - 1. Remove the front cover ass'y. (Refer to Item 6 - 2 (4).)
 - 2. Poll out the stick and remove the handle.
- 6 3Removing Power unit, PWB ass'y signal, PWB ass'y input terminal.
- (1) Removing the Power unit (ballast).
 - 1. Remove the upper case ass'y. (Refer to step 1 to 2 of item 6 2 (1).)
 - 2. Remove 2 screws C1 and disconnect the lamp connector.
 - 3. Disconnect 4 connector.
 - 4. Remove 4 screws C2 and remove the power unit holder ass'y.
- (2) Removing the power unit (circuit).
 - 1. Remove the upper case ass'y.
 (Refer to step 1 to 2 of item 6 2 (1).)
 - 2. Remove screw C4 and remove the holder metal .
 - 3. Remove screw C5 and remove the ground connection wire.
 - 4. Disconnect 2 connector and remove the power unit (circuit).
- (3) Removing the PWB ass'y filter.
 - 1. Remove the upper case ass'y.
 (Refer to steps 1 to 2 of item 6 2 (1).)
 - 2. Disconnect 2 connector and remove the PWB ass'y filter. < Refer to Fig.Remove the PWB ass'y Filter >
- (4) Removing the PWB ass'y signal.
 - 1. Remove the PWB ass'y drive. (Refer to step 1 to 2 item 6 - 2 (1).)
 - 2. Disconnect all 8 connector of PWB ass'y signal.
 - 3. Remove screw C4 and remove the holder metal.
 - 4. Remove screw C5 and remove the ground connection wire and remove the PWB ass'y signal.
- (5) Removing the PWB ass'y input terminal video.
 - 1. Remove the upper case ass'y.

 (Refer to step 1 to 2 item 6 2 (1).)
 - 2. Remove 2 screws C6 and remove the connector and remove the PWB ass'y input terminal video.



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- (6) Removing the PWB ass'y input terminal RGB.
 - 1. Remove the PWB ass'y signal.

(Refer to item 6 - 3 (4).)

2. Remove the PWB ass'y input terminal video.

(Refer to item 6 - 3 (5).)

- 3. Remove 3 screws C7 and remove I/O terminal holder.
- 4. Remove screw C8 and remove the ground connection wire from AC inlet.
- 5. Remove 2 screws C9 and remove the AC inlet holder.
- 6. Remove 2 screws D5 and remove I/O HOLDER MTL.
- 7. Remove 8 screws C11 and 2 screws C10 remove the PWB ass'y input terminal RGB.

6 - 4 Removing the dichroic optics unit, intake fan, PWB ass'y mother.

- (1) Removing the dichroic optics unit.
 - 1. Remove the lens prism unit. (Refer to step 1 to 3 of item 6 - 2 (2).)
 - 2. Remove screw D1 and remove the micro switch.
 - 3. Remove screw D2 and remove the thermal sensor switch.
 - 4. Remove 4 screws D3 and remove the dichroic optics unit.
- (2) Removing the intake fan.
 - 1. Remove the dichroic optics unit.

(Refer to item 6 - 4 (1).)

- 2. Disconnect connector from the PWB ass'y signal.
- 3. Remove 4 screws D4 and remove the intake fan.
- (3) Removing the PWB ass'y mother.
 - 1. Remove the power unit (filter).

(Refer to item 6 - 3 (3).)

2. Remove the PWB ass'y signal.

(Refer to item 6 - 3 (4).)

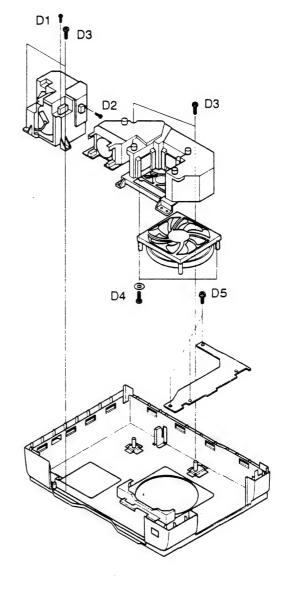
3. Remove the PWB ass'y input terminal video.

(Refer to item 6 - 3 (5).)

4. Remove the PWB ass'y input terminal RGB.

(Refer to item 6 - 3 (6).)

Remove 3 screws D5 and remove the PWB ass'y mother.



7. Dust cleaning

(1) Check dust condition

- 1. Show the white picture on the screen (whose size is 60") to check dust condition.
- 2. If dust condition is not good, LCD module ass'y, between PO.filter and Condenser lens, the Multilenses and the Air filter.

(2) Clean the LCD module ass'y

- 1. Remove the LCD module ass'y. (Refer Item 6-2(3)).
- 2. Blow the air on both side of the LCD module by Dust blower. (See Fig.7-1)
- 3. If dusts are still on, wipe it with the special glass cleaning cloth.
- 4. Fix the LCD module, and check dust condition.
- 5. It is OK, adjust convergence. (See 4-3)

(3) Clean between PO.filter and Condenser lens

- 1. If dust condition is not good still, blow the air between PO.filter and Condenser lens by Dust blower. (See Fig.7-2)
- 2. Check dust condition.

(4) Clean the Multilenses

- 1. If dust condition is not good still, remove the tape from Dichroic optics unit.
- 2. Blow the air of Multilenses by Dust blower. (See Fig.7-3)
- 3. Check dust condition.

(5) Clean the Air filter

- 1. Remove the air filter from the bottom of the projector. (See Fig.7-4)
- 2. Wipe the air filter with a cloth moistened with water or neutral detergent, and wipe with a dry cloth.

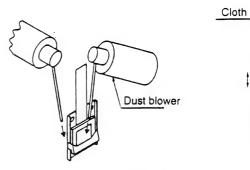


Fig.7 - 1

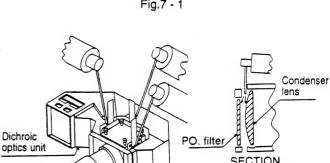


Fig.7 - 2

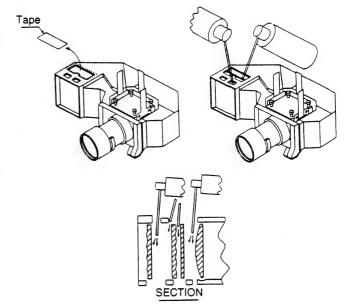


Fig.7 - 3

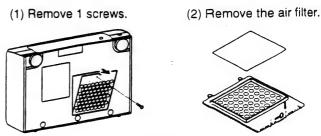
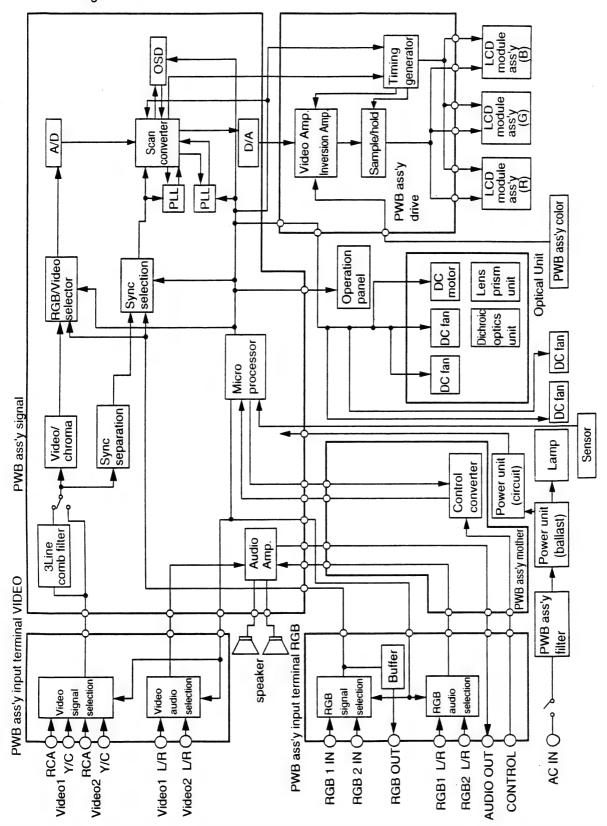


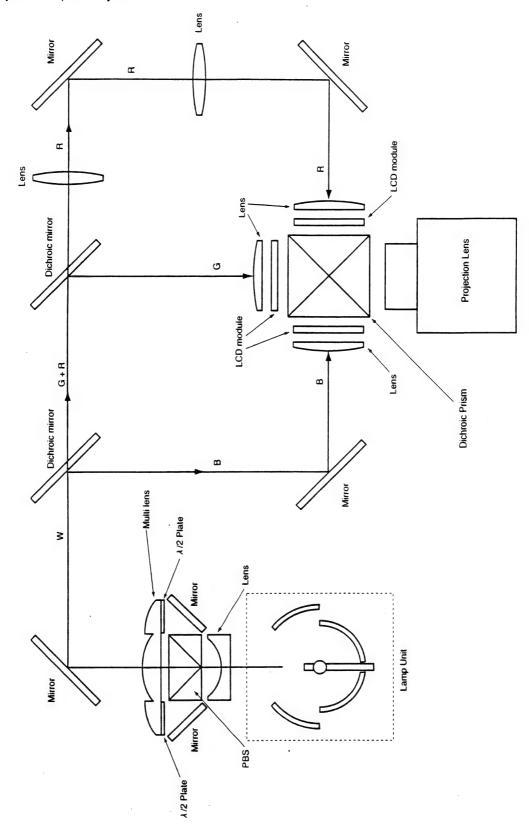
Fig.7 - 4

8. Block diagram

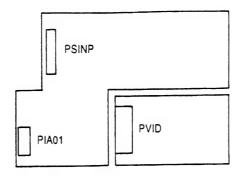
8.1 Circuit diagram

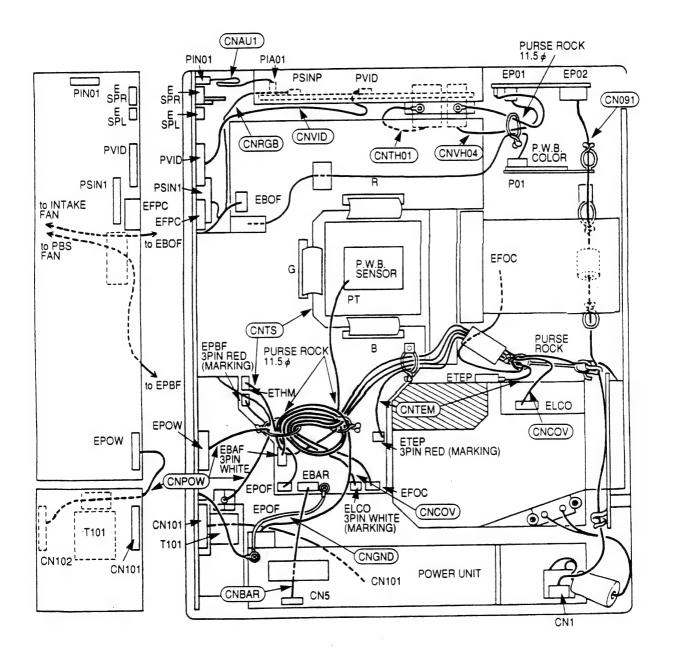


8.2 Layout of optical system

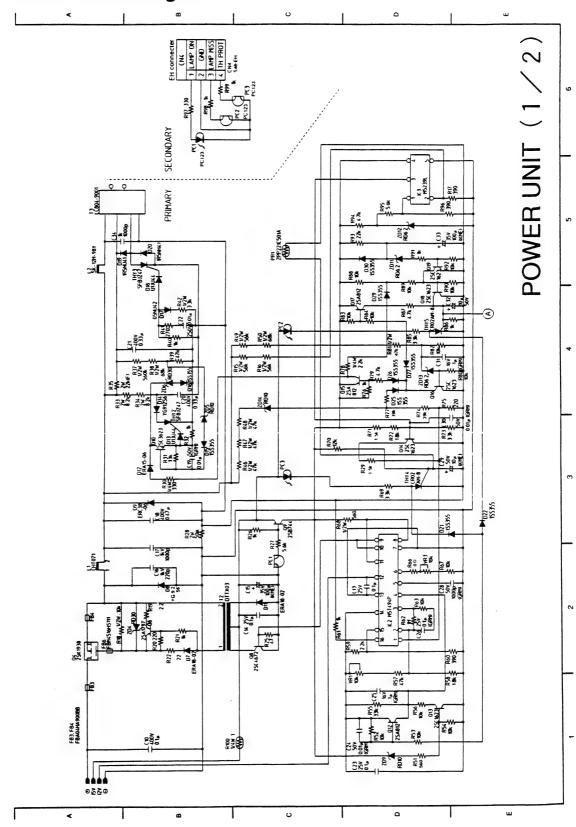


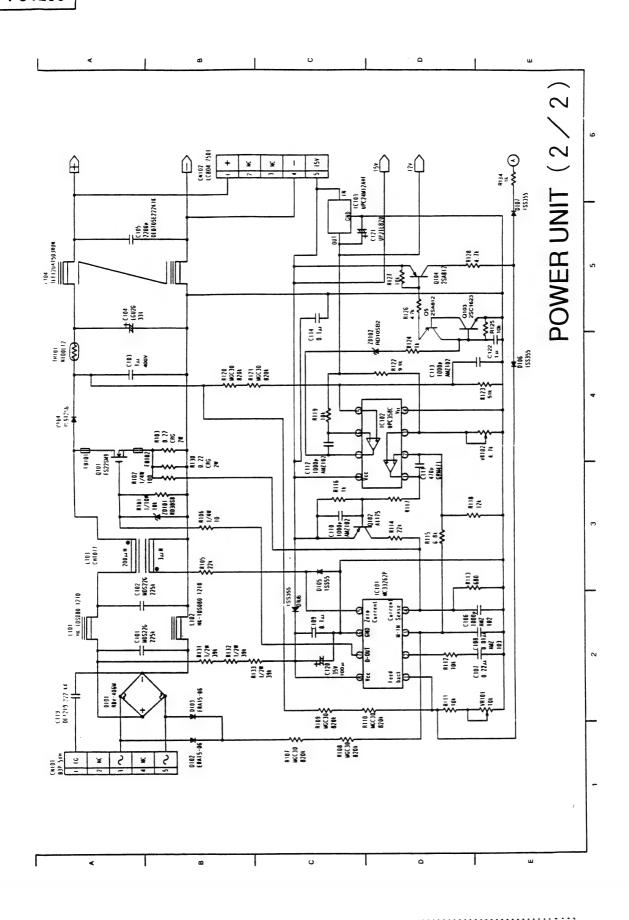
9. Wiring diagram

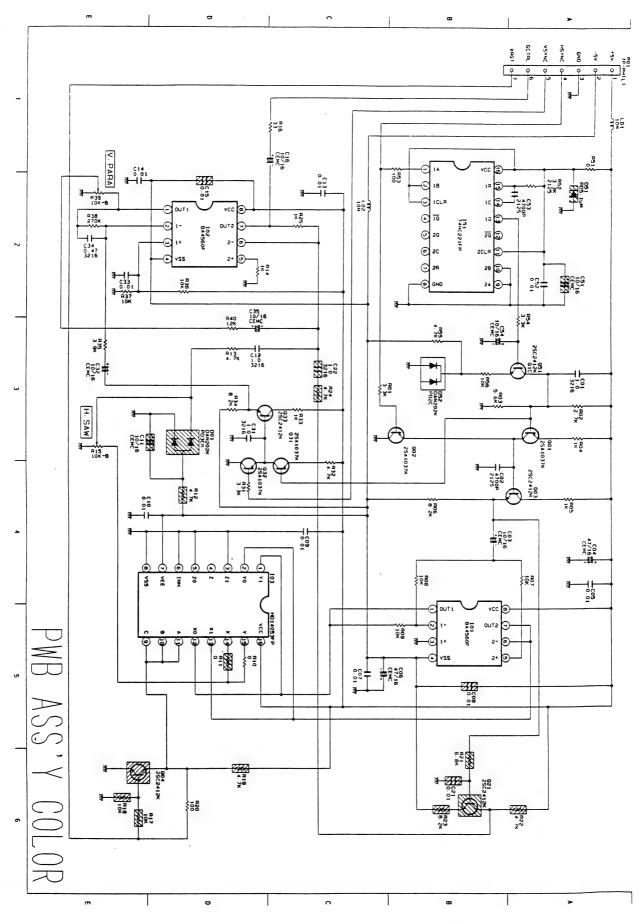




10. Basic circuit diagram

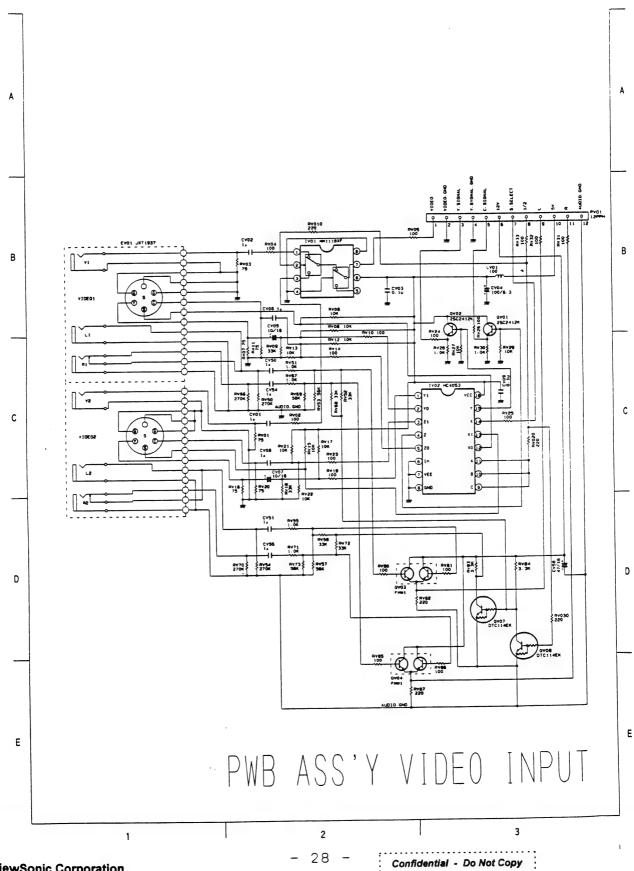




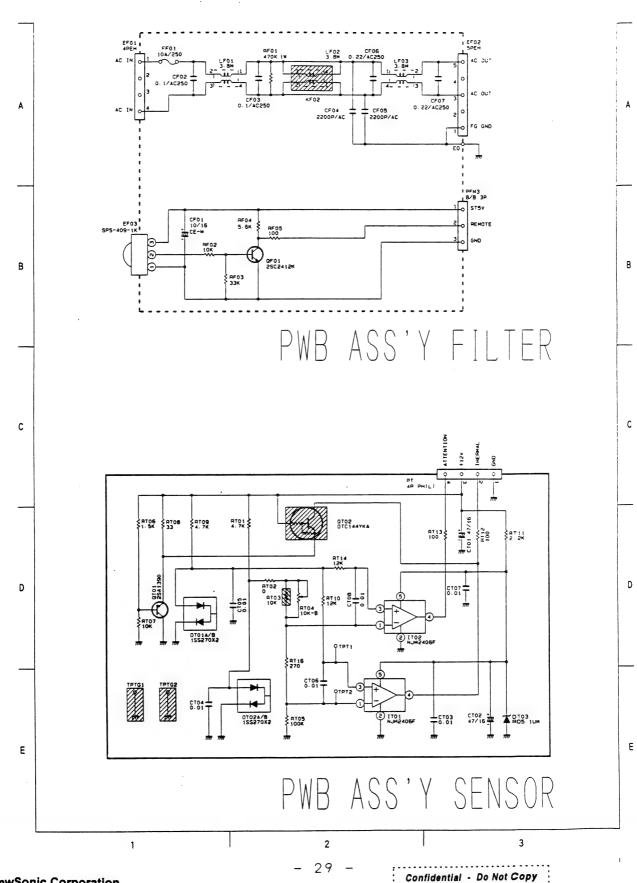


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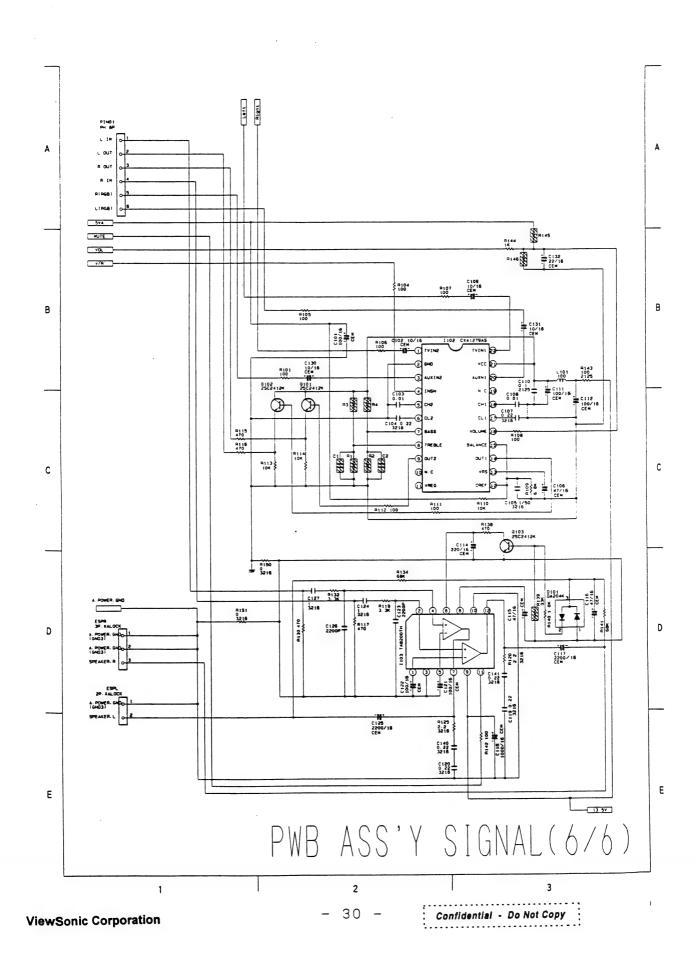
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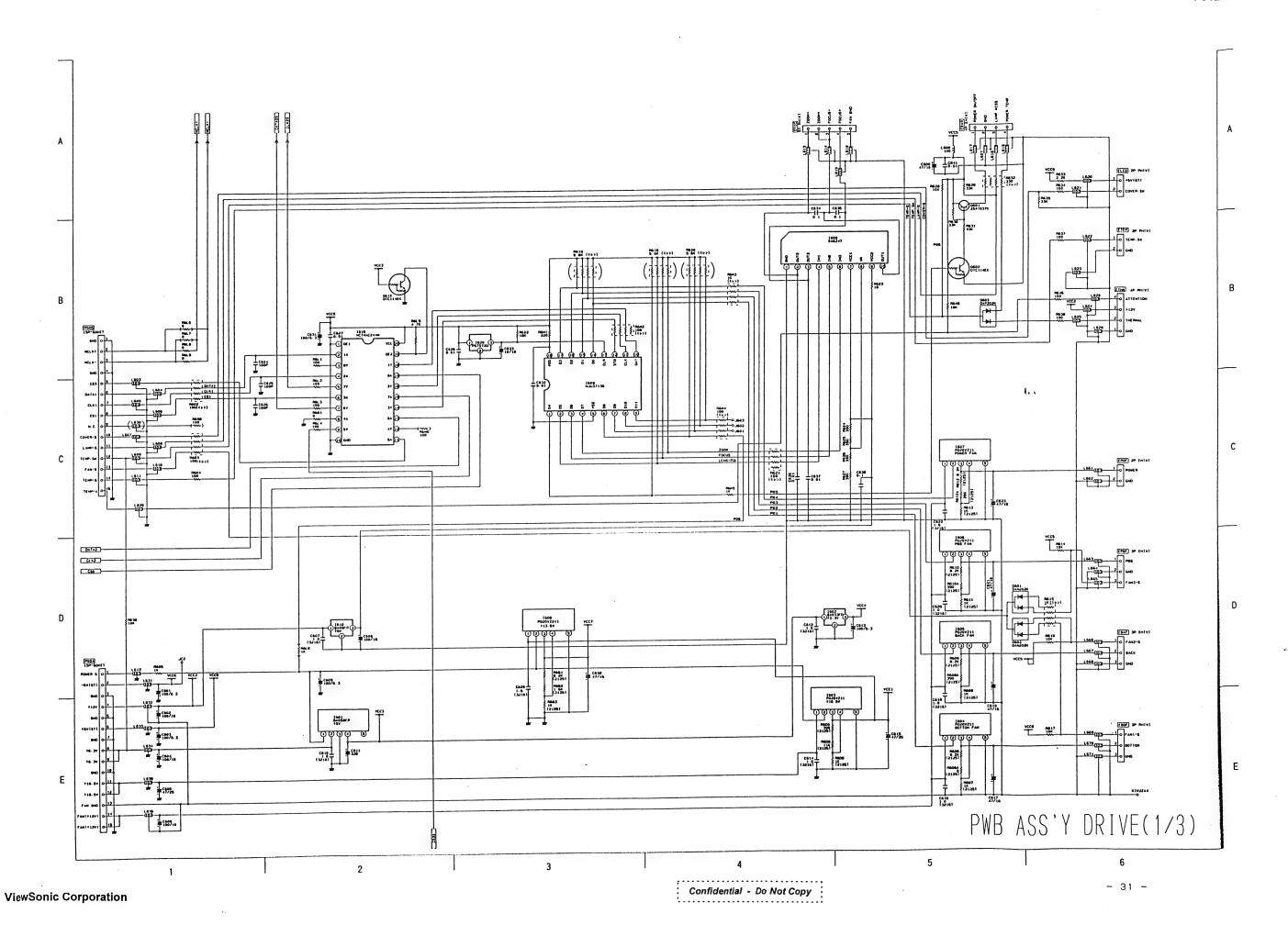


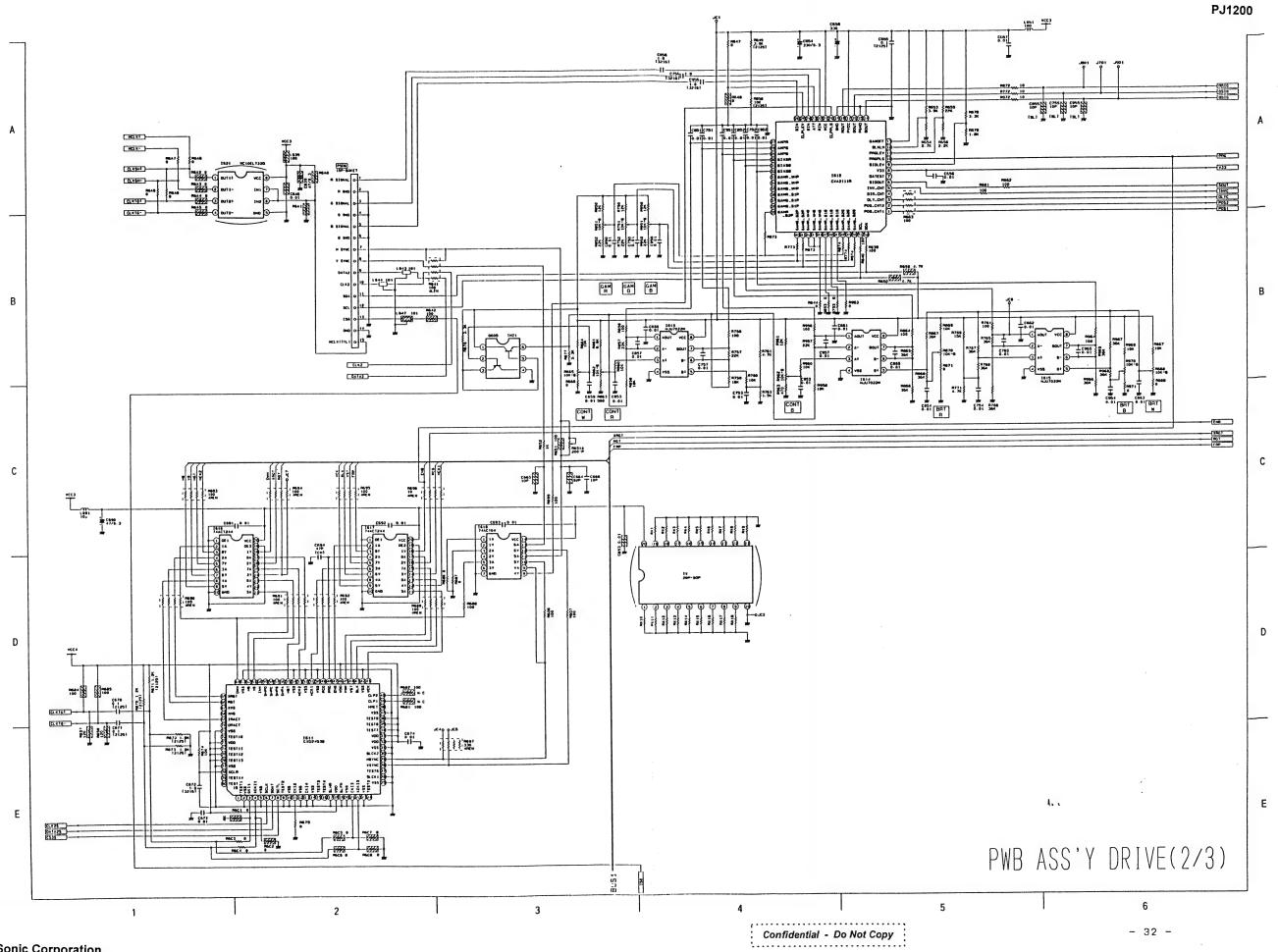
ViewSonic Corporation

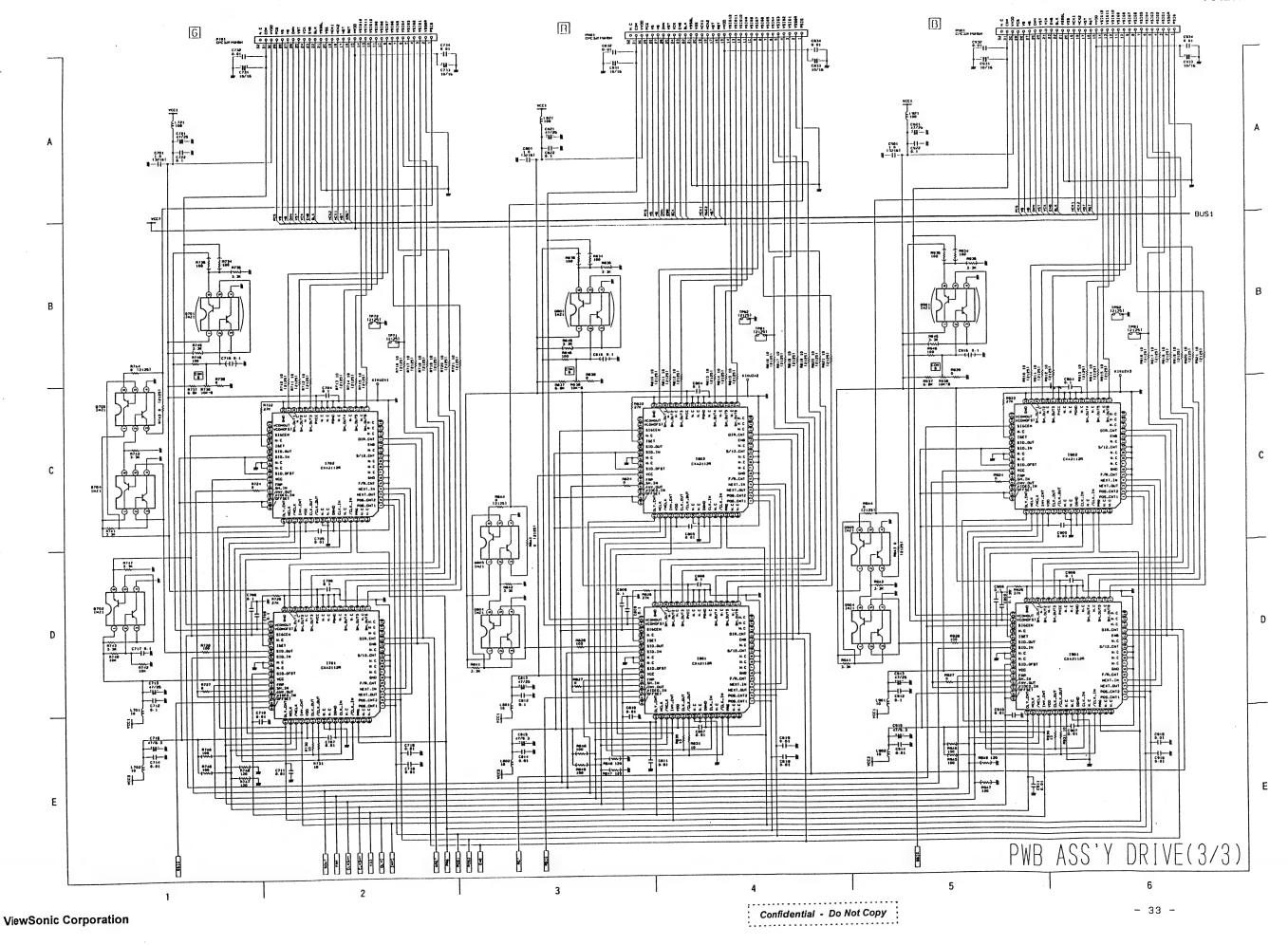


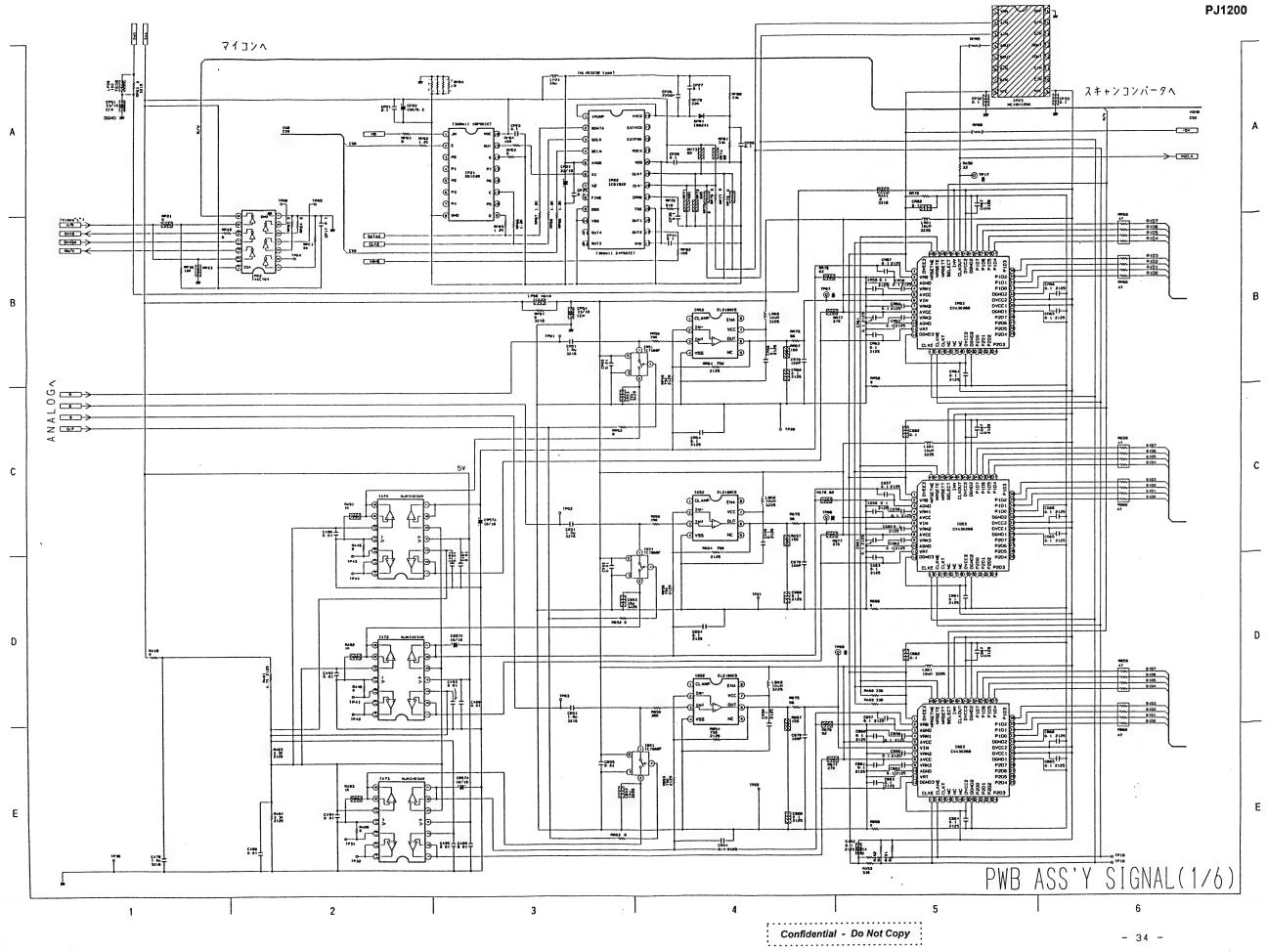
ViewSonic Corporation

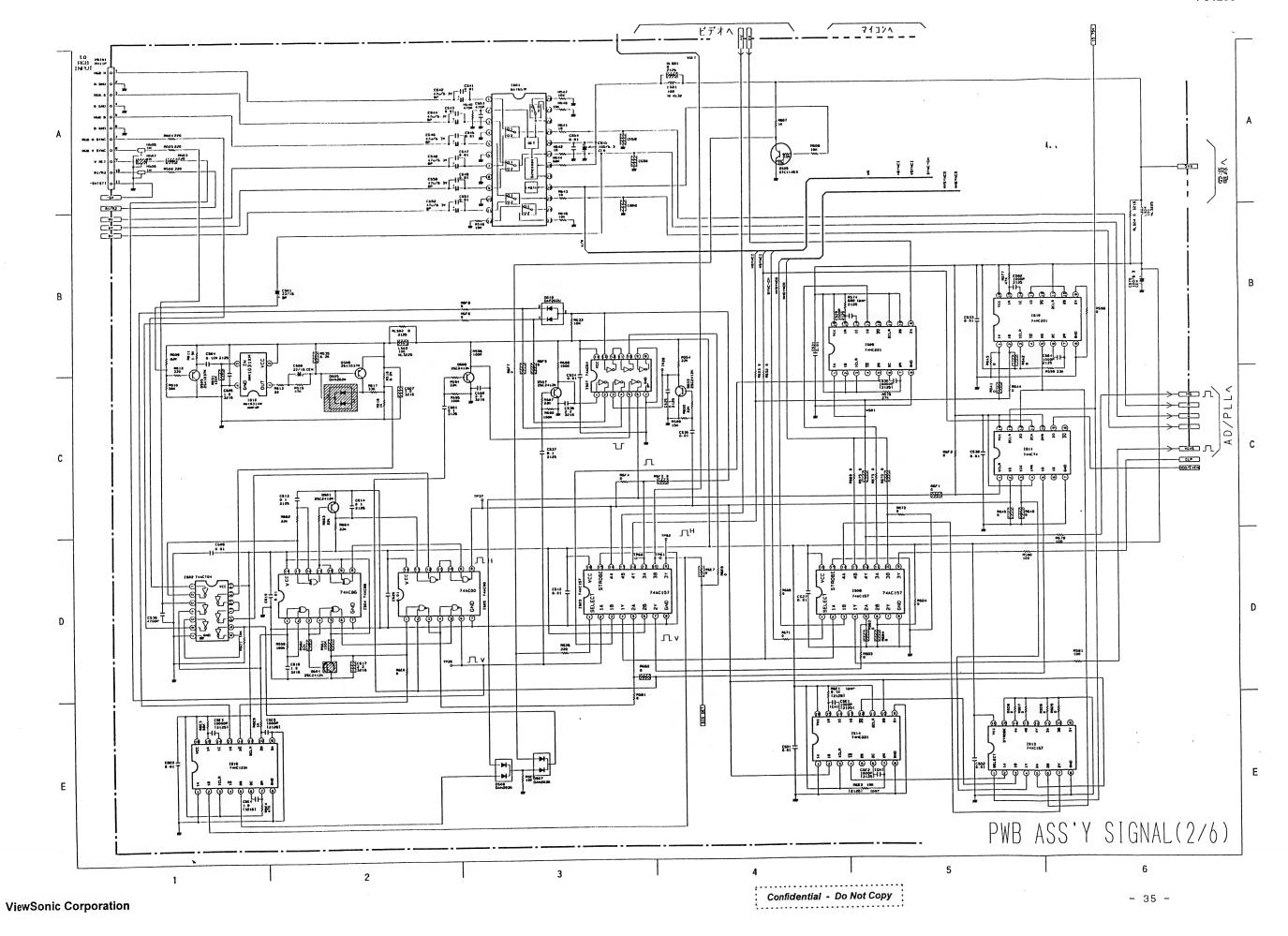


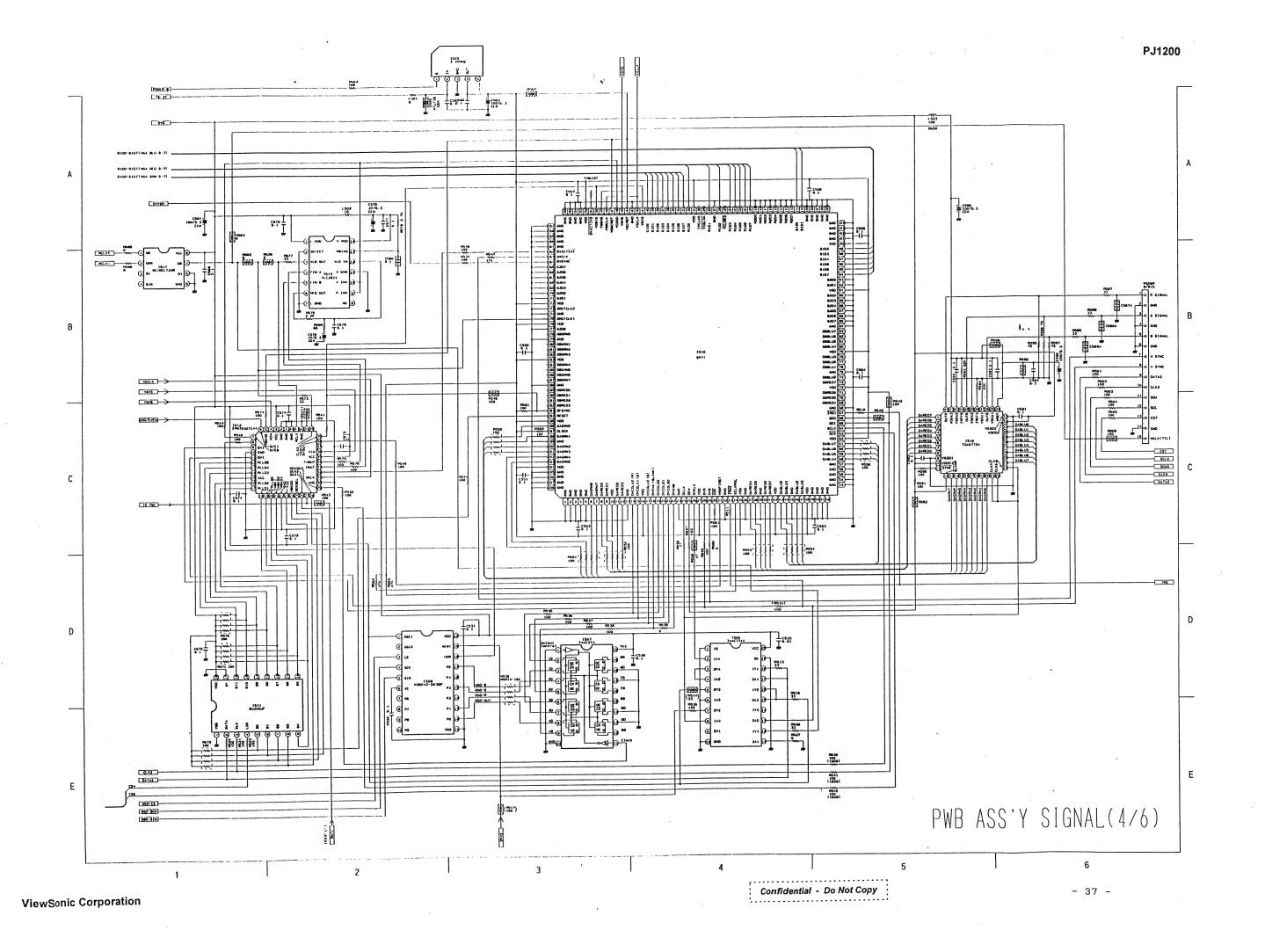


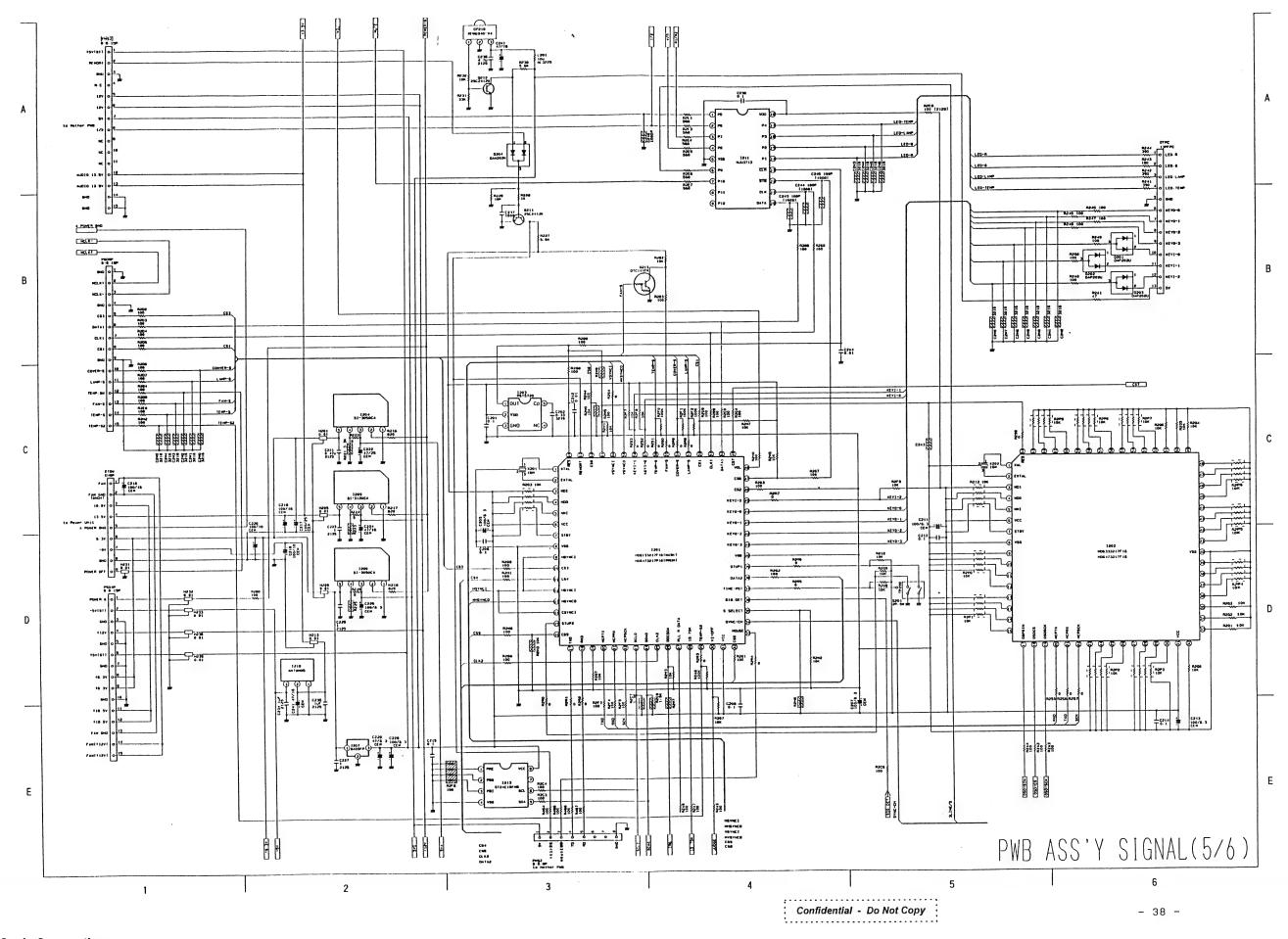


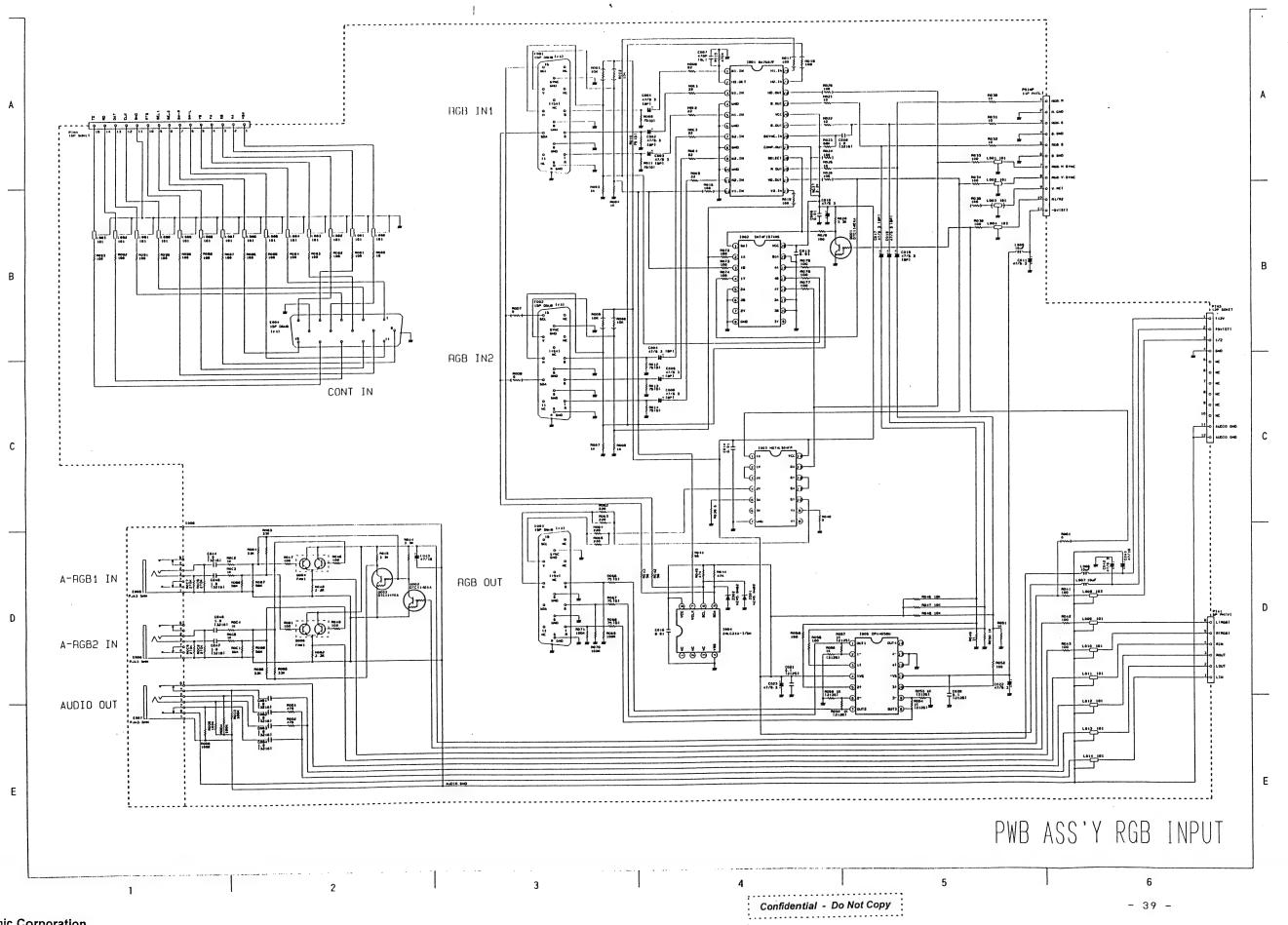


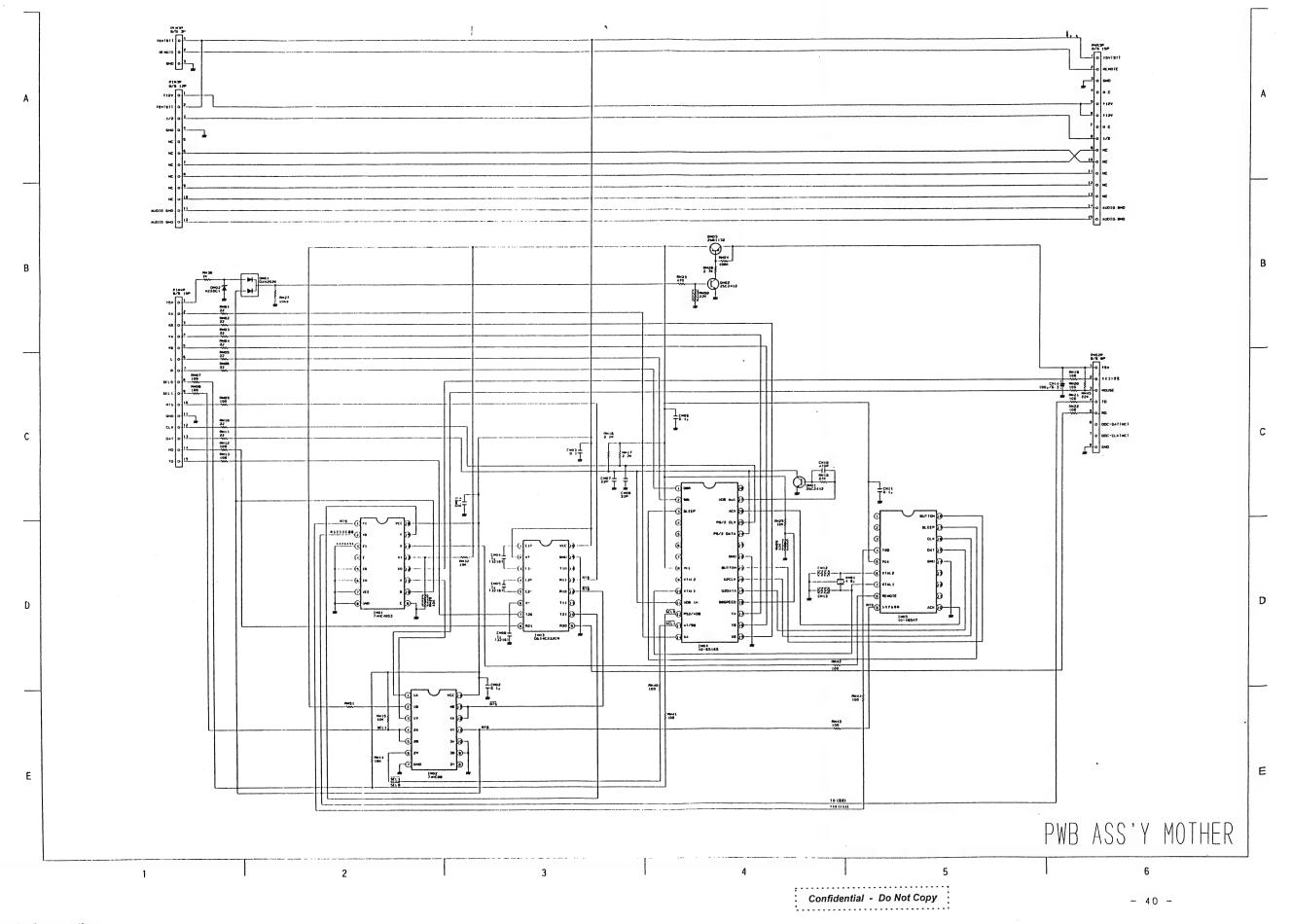


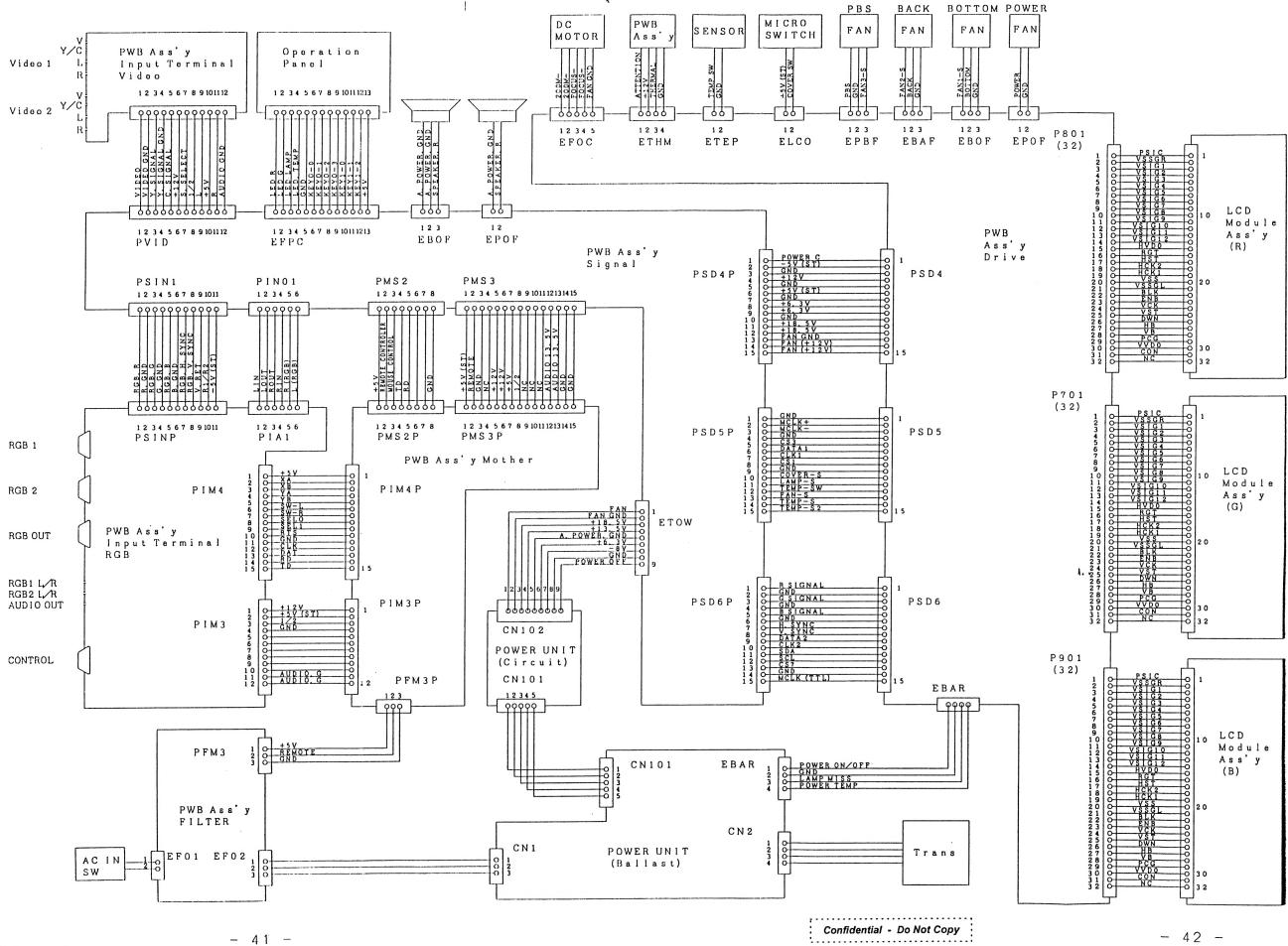




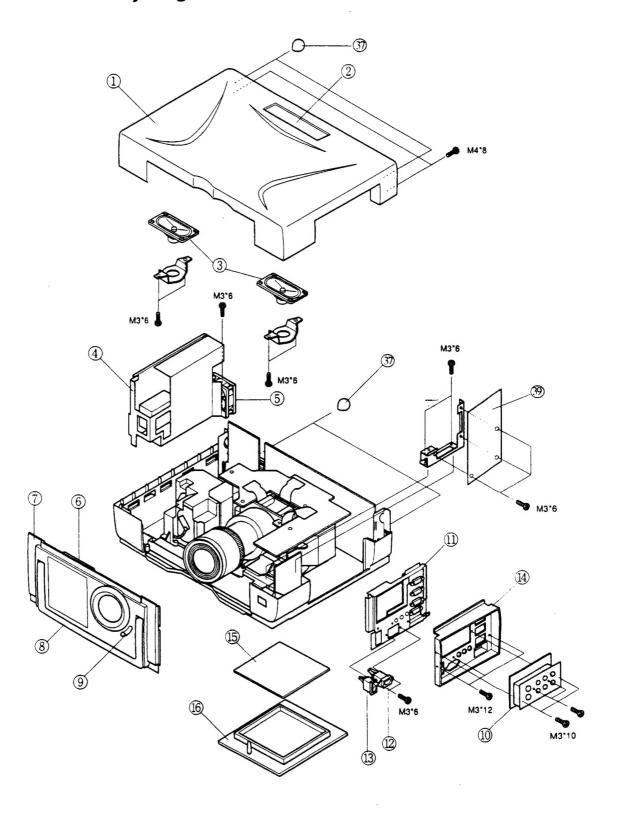


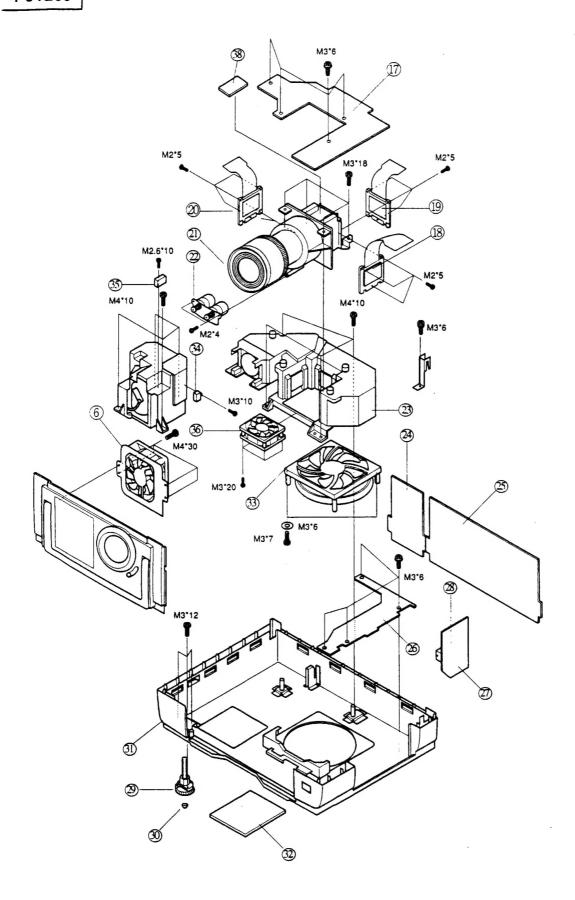






12. Disassembly diagram





13. Replacement Parts list

REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a \triangle have special characteristics important to safety. Before replacing any of there components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PARTS NO.	DESCRIPTION	SYMBOL NO.	PARTS NO.	DESCRIPTION
1	QD07591	UPPER CASE ASS'Y	31	QD06983	BOTTOM CASE ASS'Y
2	HP00436	OPERATION PANEL SWITCH UNIT	32	QD05845	LAMP COVER
3	GK00251	SPEAKER (4 x 7)	33	GS00211	DC FAN (INTAKE) (4.6W DC)
4 🕰	HA00541	POWER UNIT (BALLAST)	34	FU00252	THERMAL SENSOR SWITCH
5	GS00261	DC FAN (POWER) (2.04W DC)	35	FH00041	LIMIT SWITCH (MICRO SWITCH)
6	GS00151	DC FAN (EXHAUSTION)	36	GS00231	DC FAN (PBS) (1.56W DC)
7	QD04911	FRONT BEZEL ASS'Y	37	PE00061	RUBBER FOOT R
8	PV00172	HANDLE	38	JP03408	PWB ASS'Y SENSOR
9	MD02681	LENS BARRIER UNIT	39	JP03341	PWB ASS'Y COLOR
10	JP03405	PWB ASS'Y INPUT TERMINAL VIDEO			
11	JP03406	PWB ASS'Y INPUT TERMINAL RGB	A	EV00891	POWER SUPPLY CORD (CONTINENTAL TYPE)W/CORE
12 🛕	EP00011	AC INLET WITH FILTER	A	EV00861	POWER SUPPLY CORD (U.K. TYPE) W/CORE
13 🗘	FH00033	POWER SWITCH		EY00362	MAC ADAPTER (6SW)
14	QD04922	I/O HOLDER		HL00892	REMOTE CONTROL UNIT
15	MU00412	AIR FILTER B		EW05172	PS/2-2 MOUSE CABLE W/CORE
16	QD05281	FILTER COVER		EW05182	ADB-2 MOUSE CABLE W/CORE
17	JP02384	PWB ASS'Y DRIVE		EW04101	RGB-D CABLE (15PIN MALE TO 15PIN MALE)
18	UX05582	LCD MODULE ASS'Y R		NX02971	JIG
19	UX05581	LCD MODULE ASS'Y G		EW05192	SERIAL-2 MOUSE CABLE W/CORE
20	UX05583	LCD MODULE ASS'Y B	Δ	EV00881	POWER SUPPLY CORD (UL/CSA TYPE 125V W/CORE)
21	KS01871	LENS PRISM ASS'Y		EW10933	CABLE. AV
22	GP00172	DC MOTOR ASS'Y		EW05381	VIDEO CABLE (S CABLE) W/CORE
23	UE05421	DICHROIC OPTICS UNIT		EW05161	STEREO MINI JACK CABLE W/CORE
24 🛆	HA00531	POWER UNIT (CIRCUIT)			
25	JP03403D	PWB ASS'Y SIGNAL			
26	JP03407	PWB ASS'Y MOTHER			
27	JP03404	PWB ASS'Y FILTER			
28 🛕	FN00141	FUSE 10A 250V			
29	QJ00235	ADJUST FOOT			
30	PE00051	RUBBER FOOT B			
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